SUBJECT INDEX

Accident risks
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Aggregates
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Air conditioning
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.

Airport runways
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

ASCE Awards & Prizes
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.

ASCE Code of Ethics
"The Hyatt Horror": Failure and Responsibility in American Engineering, Sarah K. A. Pfatteicher, CF May 00, p62-66.

ASCE Committees
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

ASCE Conferences
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Asphaltic concrete
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Automobile safety standards
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Base course
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Bearing capacity
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Blast effects
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Box girders
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Bridge abutments
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Bridge design
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Buckling
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Building design
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Buildings, residential
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

California
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

California bearing ratio
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Case reports
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Chemical reactions
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Civil engineering
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.

Collapse
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.
Editor's Note, Kenneth L. Carper, CF May 00, p45.
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Collisions
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Compressive strength
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Concrete
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Concrete slabs
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Cone penetration tests
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Connecticut
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.

Connections
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Construction methods
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Contractors
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Contracts
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Control structures
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Core
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Cracks
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Curricula
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.

Damage
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Design
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.

Design criteria
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.

Design improvements
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Diffraction
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Disasters
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.

Distortion
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Earthquake damage
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

Earthquake resistant structures
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.

Earthquakes
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.

Elevators
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.

Engineering education
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.

SUBJECT INDEX

Accident risks
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Aggregates
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Air conditioning
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.

Airport runways
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

ASCE Awards & Prizes
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.

ASCE Code of Ethics
"The Hyatt Horror": Failure and Responsibility in American Engineering, Sarah K. A. Pfatteicher, CF May 00, p62-66.

ASCE Committees
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

ASCE Conferences
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Asphaltic concrete
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Automobile safety standards
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Base course
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Bearing capacity
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Blast effects
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Box girders
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Bridge abutments
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Bridge design
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Buckling
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Building design
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Buildings, residential
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

California
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

California bearing ratio
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Case reports
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Chemical reactions
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Civil engineering
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.

Collapse
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.
Editor's Note, Kenneth L. Carper, CF May 00, p45.
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Collisions
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Compressive strength
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Concrete
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Concrete slabs
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Cone penetration tests
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Connecticut
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.

Connections
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Construction methods
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Contractors
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Contracts
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Control structures
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Core
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Cracks
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Curricula
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.

Damage
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Design
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.

Design criteria
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.

Design improvements
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Diffraction
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Disasters
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.

Distortion
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Earthquake damage
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

Earthquake resistant structures
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.

Earthquakes
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.

Elevators
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.

Engineering education
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.

Engineering societies
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.

Equipment
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.

Errors
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Estimating
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Ethics
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
"The Hyatt Horror": Failure and Responsibility in American Engineering, Sarah K. A. Pfatteicher, CF May 00, p62-66.

Evaluation
Heat Damage Assessment of Oil Immersed Transformer, Yoke Lin Tan, P.E., CF May 00, p84-86.

Explosives
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Fabrication
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Failures
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Failures, investigations
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.
"The Hyatt Horror": Failure and Responsibility in American Engineering, Sarah K. A. Pfatteicher, CF May 00, p62-66.

Fatigue life
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Field tests
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Fills
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

Fire exposure
Heat Damage Assessment of Oil Immersed Transformer, Yoke Lin Tan, P.E., CF May 00, p84-86.

FitzSimmons, Neal, P.E. (Fellow, ASCE)
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.

Forensic engineering
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Foundation settlement
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Foundations
Cutoff Frequencies for Impulse Response Tests of Existing Foundations, Sarah L. Gassman and Richard J. Finno, CF Feb. 00, p11-21.

Frequency response
Cutoff Frequencies for Impulse Response Tests of Existing Foundations, Sarah L. Gassman and Richard J. Finno, CF Feb. 00, p11-21.

Full-scale tests
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Glass
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Guidelines
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.

Hangers
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Hardness
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Highways
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Human behavior
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Information management
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.

Injuries
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Interactions
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Liquefaction
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

Materials, properties
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Measurement
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Metals
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Microscopy
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Multistory buildings
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.

Nondestructive measurement
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Nondestructive tests
Cutoff Frequencies for Impulse Response Tests of Existing Foundations, Sarah L. Gassman and Richard J. Finno, CF Feb. 00, p11-21.
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Obituaries
Editor's Note, Kenneth L. Carper, CF Aug. 00, p87-88.

Particles
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Pavement condition
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Performance evaluation
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Pile caps
Cutoff Frequencies for Impulse Response Tests of Existing Foundations, Sarah L. Gassman and Richard J. Finno, CF Feb. 00, p11-21.

Piles
Cutoff Frequencies for Impulse Response Tests of Existing Foundations, Sarah L. Gassman and Richard J. Finno, CF Feb. 00, p11-21.

Professional personnel
Common Interface Problems Among Various Construction Parties, Abdul-Mohsen Al-Hammad, CF May 00, p71-74.

Professional role
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
"The Hyatt Horror": Failure and Responsibility in American Engineering, Sarah K. A. Pfatteicher, CF May 00, p62-66.

Questionnaires
1999 Reader Survey Results, Otto C. Guedelhoefer, CF Feb. 00, p1-4.

Renovation
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Responses
1999 Reader Survey Results, Otto C. Guedelhoefer, CF Feb. 00, p1-4.

Responsibility
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
"The Hyatt Horror": Failure and Responsibility in American Engineering, Sarah K. A. Pfatteicher, CF May 00, p62-66.

Retrofitting
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Roofs
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Rusting
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Safety engineering
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Sampling
Importance of Invasive Measures in Assessment of Existing Pavements, Michael A. Mooney, Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154.

Sand
Earthquake Damage and Repair of Oakland Airport Runway, William P. Grogan and Barney A. Vallerga, CF Nov. 00, p135-140.

Seismic response
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.

Service life
Heat Damage Assessment of Oil Immersed Transformer, Yoke Lin Tan, P.E., CF May 00, p84-86.

Serviceability
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Slabs
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Soil conditions
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Soil settlement
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127.

Splicing
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Steel
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.

Steel frames
National Program to Improve Seismic Performance of Steel Frame Buildings, Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179.

Steel plates
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Structural failures
Another Look at the L'Ambiance Plaza Collapse, Rachel Martin and Norbert J. Delatte, CF Nov. 00, p160-165.
Editor's Note, Kenneth L. Carper, CF May 00, p45.

Subgrades
DCP Criteria for Performance Evaluation of Pavement Layers, M. A. Gabr, Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148.

Sulfates
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Surface finishing
Rusting of Metallic Surface Hardeners: A Case History, Noel P. Mailvaganam and Jim Margeson, CF Feb. 00, p5-10.

Surveys
1999 Reader Survey Results, Otto C. Guedelhoefer, CF Feb. 00, p1-4.

Surveys, data collection
Failure of Constructed Facilities in Civil Engineering Curricula, Kevin L. Rens, P.E., Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37.
Integral Abutment Bridges: Current Practice in United States and Canada, Jonathan Kunin and Sreenivas Alampalli, CF Aug. 00, p104-111.

Suspended structures
Editor's Note, Kenneth L. Carper, CF May 00, p45.

Tall buildings
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, Mohammad A. Hassanain and Edward L. Harkness, CF Feb. 00, p22-26.

Teaching methods
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.

Temperature effects
Heat Damage Assessment of Oil Immersed Transformer, Yoke Lin Tan, P.E., CF May 00, p84-86.

Tests
Editor's Note, Kenneth L. Carper, CF Nov. 00, p133-134.

Thermal analysis
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

Transformers
Heat Damage Assessment of Oil Immersed Transformer, Yoke Lin Tan, P.E., CF May 00, p84-86.

Trusses
Restoration of Cold Storage Factory Building, N. Subramanian, CF Nov. 00, p155-159.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

Ultrasonic testing
Crack Measurement in Steel Plates Using TOFD Method, William J. Zippel, José A. Pincheira and Glenn Washer, CF May 00, p75-82.

Undergraduate study
Case for Undergraduate Study of Disasters, Alan Jennings and Pauline Mackinnon, CF Feb. 00, p38-41.

Vehicle impact forces
Performance Problems and Structural Retrofit Analysis of Existing BCTs, Jerry Wekezer, Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125.

Ventilation
Design Guidelines for Replacement of Air-Conditioning Systems112-117, Mohammad A. Hassanain and Edward L. Harkness, CF Aug. 00, p112-117.

Walkways
Chronology and Context of the Hyatt Regency Collapse, Gregory P. Luth, CF May 00, p51-61.
Editor's Note, Kenneth L. Carper, CF May 00, p45.
The Engineer of Record and Design Responsibility, Jack D. Gillum, P.E., CF May 00, p67-70.
Engineering Process Failure—Hyatt Walkway Collapse, Piotr D. Moncarz, P.E. and Robert K. Taylor, P.E., CF May 00, p46-50.

Window glass
Glass-Related Injuries in Oklahoma City Bombing, H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56.

Wooden structures
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, Richard M. Bennett, Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103.

World Wide Web
Failure Analysis Case Study Information Disseminator, Kevin L. Rens, P.E., Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131.

X-ray diffraction
Assessment of Concrete in Sulfate Soils, Rachel J. Detwiler, P.E., Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96.

AUTHOR INDEX

Alampalli, Sreenivas
see Kunin, Jonathan, CF Aug. 00, p104-111

Al-Hammad, Abdul-Mohsen
Common Interface Problems Among Various Construction Parties, CF May 00, p71-74

Bennett, Richard M.
Splice Failures in Split-Ring Connected Wood Roof Trusses: Case Study, with Kenneth E. Fricke and Paul M. Winistorfer, CF Aug. 00, p97-103

Bondy, Kenneth B.
see Hichborn, Geoffrey D., Sr., P.E., (disc), CF Aug. 99, p121-127

Bong, William
see Mooney, Michael A., CF Nov. 00, p149-154

Carper, Kenneth L.
Editor's Note, CF May 00, p45
Editor's Note, CF Aug. 00, p87-88
Editor's Note, CF Nov. 00, p133-134

Clark, Melissa
see Rens, Kevin L., P.E., CF Aug. 00, p127-131

Clark, Melissa J.
see Rens, Kevin L., P.E., CF Feb. 00, p27-37

Colbaugh, E. David
disc. (of Damage and Distortion Criteria for Residential Slab-on-Grade Structures, by Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127), CF Nov. 00, p168-169

Conrath, Edward J.
see Norville, H. Scott, CF May 99, p50-56

Coonse, Jeffery
see Gabr, M. A., CF Nov. 00, p141-148

Corley, W. Gene, P.E.
see Detwiler, Rachel J., P.E., CF Aug. 00, p89-96

Delatte, Norbert J.
see Martin, Rachel, CF Nov. 00, p160-165

Delles, JoAnne B.
see Detwiler, Rachel J., P.E., CF Aug. 00, p89-96

Detwiler, Rachel J., P.E.
Assessment of Concrete in Sulfate Soils, with Peter C. Taylor, Laura J. Powers, W. Gene Corley, P.E., JoAnne B. Delles and Bradley R. Johnson, CF Aug. 00, p89-96

Fielding, David J., P.E.
disc. (of National Program to Improve Seismic Performance of Steel Frame Buildings, by Stephen A. Mahin, Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179), CF Feb. 00, p43

Finno, Richard J.
see Gassman, Sarah L., CF Feb. 00, p11-21

Fricke, Kenneth E.
see Bennett, Richard M., CF Aug. 00, p97-103

Gabr, M. A.
DCP Criteria for Performance Evaluation of Pavement Layers, with Kelly Hopkins, Jeffery Coonse and Tom Hearne, CF Nov. 00, p141-148

Gassman, Sarah L.
Cutoff Frequencies for Impulse Response Tests of Existing Foundations, with Richard J. Finno, CF Feb. 00, p11-21

Gillum, Jack D., P.E.
The Engineer of Record and Design Responsibility, CF May 00, p67-70

Grogan, William P.
Earthquake Damage and Repair of Oakland Airport Runway, with Barney A. Vallerga, CF Nov. 00, p135-140

Guedelhoefer, Otto C.
1999 Reader Survey Results, CF Feb. 00, p1-4

Hamburger, Ronald O.
see Mahin, Stephen A., CF Nov. 98, p172-179

Harkness, Edward L.
see Hassanain, Mohammad A., CF Feb. 00, p22-26
see Hassanain, Mohammad A., CF Aug. 00, p112-117

Harvill, Natalie
see Norville, H. Scott, CF May 99, p50-56

Hassanain, Mohammad A.
Design Guidelines for Replacement of Air-Conditioning Systems112-117, with Edward L. Harkness, CF Aug. 00, p112-117
Design Guidelines to Accommodate Potential Upgrading of Elevator Systems, with Edward L. Harkness, CF Feb. 00, p22-26

Hearne, Tom
see Gabr, M. A., CF Nov. 00, p141-148

Hichborn, Geoffrey D., Sr., P.E.
disc. (of Damage and Distortion Criteria for Residential Slab-on-Grade Structures, by Edred T. Marsh and Scott A. Thoeny, CF Aug. 99, p121-127) with Kenneth B. Bondy, CF Nov. 00, p167-168

Hopkins, Kelly
see Gabr, M. A., CF Nov. 00, p141-148

Jennings, Alan
Case for Undergraduate Study of Disasters, with Pauline Mackinnon, CF Feb. 00, p38-41

Johnson, Bradley R.
see Detwiler, Rachel J., P.E., CF Aug. 00, p89-96

Knott, Albert W., P.E.
see Rens, Kevin L., P.E., CF Aug. 00, p127-131

Kunin, Jonathan
Integral Abutment Bridges: Current Practice in United States and Canada, with Sreenivas Alampalli, CF Aug. 00, p104-111

Luth, Gregory P.
Chronology and Context of the Hyatt Regency Collapse, CF May 00, p51-61

Mackinnon, Pauline
see Jennings, Alan, CF Feb. 00, p38-41

Mahin, Stephen A.
National Program to Improve Seismic Performance of Steel Frame Buildings, with Ronald O. Hamburger and James O. Malley, CF Nov. 98, p172-179
disc: David J. Fielding, P.E., CF Feb. 00, p43

Mailvaganam, Noel P.
Rusting of Metallic Surface Hardeners: A Case History, with Jim Margeson, CF Feb. 00, p5-10

Malley, James O.
see Mahin, Stephen A., CF Nov. 98, p172-179

Mallonee, Sue
see Norville, H. Scott, CF May 99, p50-56

Margeson, Jim
see Mailvaganam, Noel P., CF Feb. 00, p5-10

Marsh, Edred T.
Damage and Distortion Criteria for Residential Slab-on-Grade Structures, with Scott A. Thoeny, CF Aug. 99, p121-127
disc: Geoffrey D. Hichborn, Sr., P.E. and Kenneth B. Bondy, CF Nov. 00, p167-168
disc: E. David Colbaugh, CF Nov. 00, p168-169
clo: CF Nov. 00, p169-171

Martin, Rachel
Another Look at the L'Ambiance Plaza Collapse, with Norbert J. Delatte, CF Nov. 00, p160-165

Miller, Gerald A.
see Mooney, Michael A., CF Nov. 00, p149-154

Moncarz, Piotr D., P.E.
Engineering Process Failure—Hyatt Walkway Collapse, with Robert K. Taylor, P.E., CF May 00, p46-50

Mooney, Michael A.
Importance of Invasive Measures in Assessment of Existing Pavements, with Gerald A. Miller, Siew Yin Teh and William Bong, CF Nov. 00, p149-154

Norville, H. Scott
Glass-Related Injuries in Oklahoma City Bombing, with Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56
disc: Milton M. Rudick, P.E., CF Nov. 00, p167
clo: CF Nov. 00, p167

Pfatteicher, Sarah K. A.
"The Hyatt Horror": Failure and Responsibility in American Engineering, CF May 00, p62-66

Pincheira, José A.
see Zippel, William J., CF May 00, p75-82

Powers, Laura J.
see Detwiler, Rachel J., P.E., CF Aug. 00, p89-96

Ramaley, Matthew
see Wekezer, Jerry, CF Aug. 00, p118-125

Rendon-Herrero, Oswald, P.E.
see Rens, Kevin L., P.E., CF Feb. 00, p27-37

Rens, Kevin L., P.E.
Failure Analysis Case Study Information Disseminator, with Melissa Clark and Albert W. Knott, P.E., CF Aug. 00, p127-131
Failure of Constructed Facilities in Civil Engineering Curricula, with Oswald Rendon-Herrero, P.E. and Melissa J. Clark, CF Feb. 00, p27-37

Rudick, Milton M., P.E.
disc. (of Glass-Related Injuries in Oklahoma City Bombing, by H. Scott Norville, Natalie Harvill, Edward J. Conrath, Sheryll Shariat and Sue Mallonee, CF May 99, p50-56), CF Nov. 00, p167

Shariat, Sheryll
see Norville, H. Scott, CF May 99, p50-56

Subramanian, N.
Restoration of Cold Storage Factory Building, CF Nov. 00, p155-159

Tan, Yoke Lin, P.E.
Heat Damage Assessment of Oil Immersed Transformer, CF May 00, p84-86

Taylor, Peter C.
see Detwiler, Rachel J., P.E., CF Aug. 00, p89-96

Taylor, Robert K., P.E.
see Moncarz, Piotr D., P.E., CF May 00, p46-50

Teh, Siew Yin
see Mooney, Michael A., CF Nov. 00, p149-154

Thoeny, Scott A.
see Marsh, Edred T., CF Aug. 99, p121-127

Vallerga, Barney A.
see Grogan, William P., CF Nov. 00, p135-140

Washer, Glenn
see Zippel, William J., CF May 00, p75-82

Wekezer, Jerry
Performance Problems and Structural Retrofit Analysis of Existing BCTs, with Rafal Wuttrich and Matthew Ramaley, CF Aug. 00, p118-125

Winistorfer, Paul M.
see Bennett, Richard M., CF Aug. 00, p97-103

Wuttrich, Rafal
see Wekezer, Jerry, CF Aug. 00, p118-125

Zippel, William J.
Crack Measurement in Steel Plates Using TOFD Method, with José A. Pincheira and Glenn Washer, CF May 00, p75-82